

# Other Research



- **Telemetric Study of Feral Hogs in Mixed Hardwood-Loblolly Pine Forests Located in East Feliciana Parish, LA.**
  - Five immature sows were collared with GPS/ Argos/ VHF collars.
  - Three were harvested by hunters and two by LDWF biological staff.
  - The shortest duration of study was 4 months and the longest 17 months with an average of 12 months.
  - Avg. weight gain was 9 lbs./ month.
  - Avg. home range varied from 6 to 10 sq. mi.
  - Only 1 pig crossed a blacktop road (escaping a forest fire)











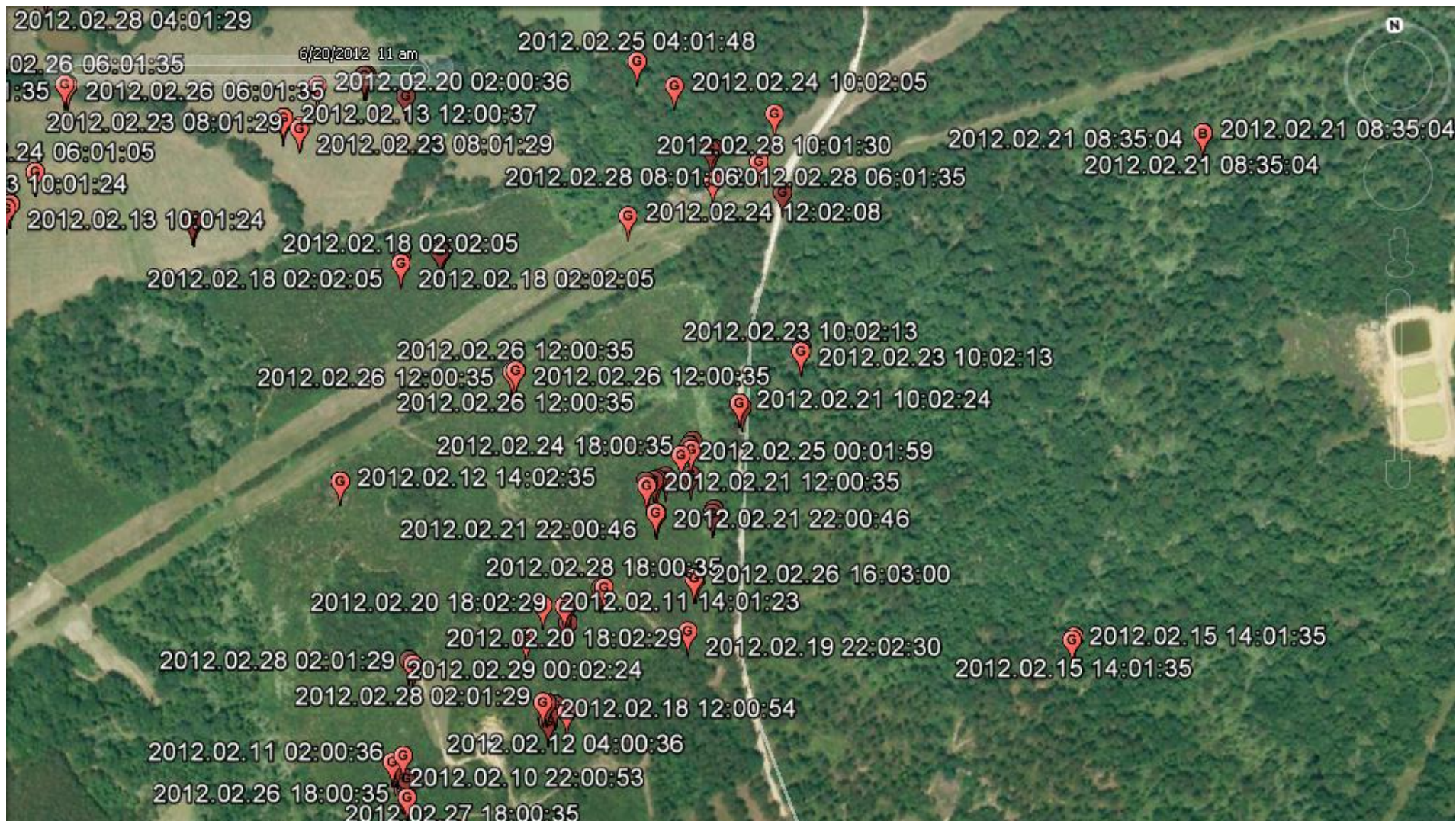


















- **Toxicant research:**
  - **Sodium nitrite**
    - **Reasonably safe for humans.**
    - **Highly toxic to pigs.**
    - **Bait Deliverable.**
    - **Food product.**
    - **Low/ no residues**
    - **Humane.**
    - **Cheap.**





- **Sodium nitrite oxidizes the iron molecule in hemoglobin to form methemoglobin.**
  - **Oxidized form the ferrous ( $\text{Fe}^{2+}$ ) to the ferric ( $\text{Fe}^{3+}$ ) state.**
  - **Ferric state is bound and cannot carry oxygen.**
  - **Sodium nitrite also causes relaxation of smooth muscles in blood vessels thus lowering blood pressure**
  - **Animals become recumbent within 1 hour after ingestion with no signs of struggle.**
  - **Non-lethal doses are metabolized by methemoglobin reductase enzyme.**
  - **Plasma half-life 29-62 minutes.**





